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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/801,697	03/17/2004	Toshiaki Ishii	1021.43671X00	1862	
	7590 06/22/201 TERRY, STOUT & KI		EXAMINER		
1300 NORTH SEVENTEENTH STREET			GRAYBILL, DAVID E		
	SUITE 1800 ARLINGTON, VA 22209-3873		ART UNIT	PAPER NUMBER	
			2894		
			MAIL DATE	DELIVERY MODE	
			06/22/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application N	o.	Applicant(s)				
Office Action Comment	10/801,697		ISHII ET AL.				
Office Action Summary	Examiner		Art Unit				
	David E. Gray		2894				
The MAILING DATE of this communication a Period for Reply	appears on the co	ver sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on 22	2 March 2010						
· · · · · · · · · · · · · · · · · · ·	his action is non-f	inal					
<i>7</i>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
ologica in accordance with the practice unde	or Ex parte Quayre), 1000 O.D. 11, 40	0.0.210.				
Disposition of Claims							
4)⊠ Claim(s) <u>8-11,21-26 and 28-30</u> is/are pendir	☑ Claim(s) <u>8-11,21-26 and 28-30</u> is/are pending in the application.						
4a) Of the above claim(s) 8-11 is/are withdra	4a) Of the above claim(s) <u>8-11</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>21-26 and 28-30</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	d/or election requi	rement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119	Zammer. Note t	no attaoned onloo	, total of formal				
<u>. </u>	:	051100 6 440/-)	(-1) - · · (5)				
12) Acknowledgment is made of a claim for forei	ign priority under	35 U.S.C. § 119(a)	-(d) or (t).				
·— <u> </u>	a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) [Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) [Notice of Informal P					
Paper No(s)/Mail Date 6) Other:							

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the following features must be shown or the feature(s) canceled from the claim(s). No new matter should be entered:

Re claim 21: the bonding wires are provided only over the first major surface of the heat sink to which the multilayered wiring board and the portion of the at least one end of the polyimide wiring board are fixed.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the

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examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 8, 21-26 and 28-30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The undescribed subject matter is the following:

Re claim 21: the bonding wires are provided only over the first major surface of the heat sink to which the multilayered wiring board and the portion of the at least one end of the polyimide wiring board are fixed.

In particular, the language is a negative limitation which excludes wherein the bonding wires are provided other than over the first major surface of the heat sink to which the multilayered wiring board and the portion of the at least one end of the polyimide wiring board are fixed, and any negative limitation or exclusionary proviso must have basis in the

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original disclosure. See Ex parte Grasselli, 231 USPQ 393 (Bd. App. 1983) aff'd mem., 738 F.2d 453 (Fed. Cir. 1984). The mere absence of a positive recitation or drawing illustration is not basis for an exclusion.

Indeed, in FIG. 7, the bonding wires 21 are provided more than over the first major surface of the heat sink to which the multilayered wiring board and the portion of the at least one end of the polyimide wiring board are fixed; e.g., the bonding wires are also provided over the resin 7.

Furthermore, the figures are not limited to an absolute frame of reference or otherwise limited to a particular orientation, and it is inherent that there is a frame of reference wherein the bonding wires are provided other than over the first major surface of the heat sink to which the multilayered wiring board and the portion of the at least one end of the polyimide wiring board are fixed.

Claims 8, 21-26 and 28-30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The undescribed subject matter is the following:

Re claim 21: the bonding wires are provided only over the first major surface of the heat sink to which the multilayered wiring board and the portion of the at least one end of the polyimide wiring board are fixed.

To further clarify, one skilled in the art would be unable to make and/or use the invention because it is inherent that there is necessarily a frame of reference wherein the bonding wires are provided other than over the first major surface of the heat sink to which the multilayered wiring board and the portion of the at least one end of the polyimide wiring board are fixed.

The remarks filed on 03-22-10 have been fully considered, however, they do not overcome the 112 first paragraph rejection supra.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

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advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

For information on the status of this application applicant should check PAIR: Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alternatively, applicant may contact the File Information Unit at (703) 308-2733. Telephone status inquiries should not be directed to the examiner. See MPEP 1730VIC, MPEP 203.08 and MPEP 102.

Any other telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (571) 272-1930. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

The fax phone number for group 2800 is (571) 273-8300.

/David E Graybill/ Primary Examiner, Art Unit 2894